niently reckoned from the loweſt and thickeſt part of the Bubble upwards.

OBS. XIX.

Viewing in ſeveral oblique poſitions of my Eye the Rings of Colours emerging on the top of the Bubble, I found that they were ſenſibly dilated by increaſing the obliquity, but yet not ſo much by far as thoſe made by thin'd Air in the ſeventh Obſervation. For there they were dilated ſo much as, when viewed moſt obliquely, to arrive at a part of the plate more than twelve times thicker than that where they appeared when viewed perpendicularly; whereas in this caſe the thickneſs of the Water, at which they arrived when viewed moſt obliquely, was to that thickneſs which exhibited them by perpendicular rays, ſomething leſs than as 8 to 5. By the beſt of my Obſervations it was between 15 and $15\frac{1}{2}$ to 10, an increaſe about 24 times leſs than in the other caſe.

Sometimes the Bubble would become of an uniform thickneſs all over, except at the top of it near the black Spot, as I knew, becauſe it would exhibit the ſame appearance of Colours in all poſitions of the Eye. And then the Colours which were ſeen at its apparent circumference by the obliqueſt rays, would be different from thoſe that were ſeen in other places, by rays leſs oblique to it. And divers Spectators might ſee the ſame part of it of differing Colours, by viewing it at very differing obliquities. Now obſerving how much the Colours at the ſame places of the Bubble, or at divers places of equal thickneſs, were varied by the

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